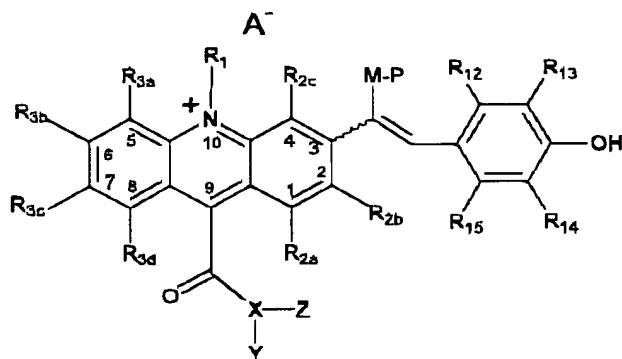


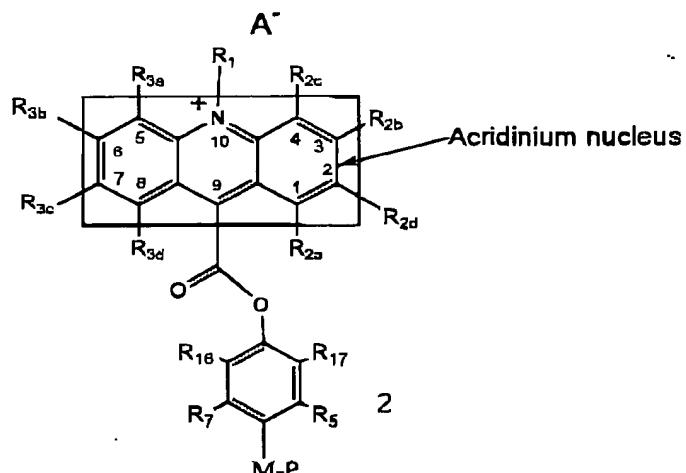
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*(A)* 23. The chemiluminescent substrate of claim 4 wherein said chemiluminescent moiety Lumi is an acridinium compound having the following structure:



wherein, R<sub>1</sub>, R<sub>2a-c</sub>, R<sub>3a-d</sub>, A<sup>-</sup>, M, P, X, Y, and Z are as defined in claim 4; R<sub>12</sub>, R<sub>13</sub>, R<sub>14</sub> and R<sub>15</sub> are the same or different and are selected from the group consisting of hydrogen, -R, hydroxyl, amino, halides, nitro, nitroso, sulfonate, sulfate, phosphonate, -CO<sub>2</sub>H, cyano (-CN), -SCN, -OR, -SR, -SSR, -C(O)R, and -C(O)NHR.

*(A)* 26. The chemiluminescent substrate of claim 4 wherein said chemiluminescent moiety Lumi is an acridinium compound having the following structure:



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wherein,  $R_1$ ,  $R_{2a-c}$ ,  $R_{3a-d}$ ,  $R_5$ ,  $R_7$ ,  $A^-$ ,  $M$ , and  $P$  are as defined in claim 4;

*BB*  
*BNK*  

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 $R_{2d}$  is as defined for  $R_{2a-c}$  and  $R_{3a-d}$ ;

$R_{16}$  and  $R_{17}$  are the same or different, and are selected from the group consisting of hydrogen, methyl, alkyl with low molecular weight, and halides.